

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/004787

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 D21F1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 D21F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97/01431 A (HUYCK LICENSCO, INC) 16 January 1997 (1997-01-16) the whole document -----	1-4, 6, 7, 15, 19, 20
X	GB 2 012 327 A (TAMPEREEN VERKATHEHDAS OY) 25 July 1979 (1979-07-25) the whole document -----	1, 3, 4, 15, 19, 20
A	EP 0 544 167 A (THOMAS JOSEF HEIMBACH GMBH & CO) 2 June 1993 (1993-06-02) the whole document -----	1, 15
A	US 3 573 164 A (NORMAN D. FRIEDBERG ET AL) 30 March 1971 (1971-03-30) the whole document -----	1, 15

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

12 July 2005

Date of mailing of the international search report

27/07/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Helpiö, T.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/004787

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 9701431	A	16-01-1997	AU	6481096 A		30-01-1997
			CA	2153846 A1		29-12-1996
			WO	9701431 A1		16-01-1997
GB 2012327	A	25-07-1979	FI	773981 A		01-07-1979
			CA	1100801 A1		12-05-1981
			DE	2856429 A1		05-07-1979
			SE	430799 B		12-12-1983
			SE	7813459 A		01-07-1979
EP 0544167	A	02-06-1993	DE	4137984 C1		17-12-1992
			AT	132553 T		15-01-1996
			CA	2083231 A1		20-05-1993
			DE	59204922 D1		15-02-1996
			EP	0544167 A1		02-06-1993
			ES	2084248 T3		01-05-1996
			FI	925222 A ,B,		20-05-1993
			US	5407737 A		18-04-1995
US 3573164	A	30-03-1971	NONE			